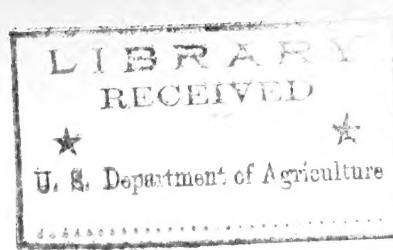


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NEWS LETTER

OF THE

BUREAU OF ENTOMOLOGY

U. S. DEPARTMENT OF AGRICULTURE.

NUMBER 4.

JULY, 1914.

BUREAU OF ENTOMOLOGY.

FISCAL YEAR 1915.

GENERAL BUREAU ADMINISTRATION.

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DECIDUOUS FRUIT INSECT INVESTIGATIONS.

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F. E. Brooks	(Univ. of W. Va.)	French Creek, W. Va.
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W. F. Turner	(Mass. Agr. Coll.)	do
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J. G. Hamilton	(New Mex. Agr. Coll.)	do
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E. R. Van Leeuwen	(Mich. Agr. Coll.)	do
E. J. Newcomer	(Leland Stanford Univ.)	Wenatchee, Wash.

PEACH INSECT INVESTIGATIONS.

E. B. Blakeslee	(Ohio State Univ.)	Winchester, Va.
O. I. Snapp	(Va. Polytechnic Inst.)	do
W. B. Wood	(Kansas State Agr. Coll.)	Washington, D. C.
R. L. Nougaret	(Montpellier (France) School of Agr.)	Walnut Creek, Cal.
W. M. Davidson	(Leland Standford Univ.)	do

GRAPE INSECT INVESTIGATIONS.

R. L. Nougaret	(Montpellier (France) School of Agr.)	Walnut Creek, Cal.
W. M. Davidson	(Leland Standford Univ.)	do
R. W. Haegeler	(Leland Standford Univ.)	do
Dwight Isely	(Cornell Univ.)	North East, Pa.
E. R. Selkregg	do
Fred Johnson	do

NUT INSECT INVESTIGATIONS.

J. B. Gill	(Penn. State Coll.)	Monticello, Fla.
A. I. Fabis	(Columbia College, N. Y. City)	do
G. R. Bailey	do

INVESTIGATION OF ORCHARD INSECTICIDES & SPRAYING MACHINERY.

E. H. Siegler (Penn. State Coll.)..... Benton Harbor, Mich.
 G. Ingerson (Penn. State Coll.)..... do

CRANBERRY AND SMALL FRUIT INSECT INVESTIGATIONS.

H. B. Scammell (Colorado State Agr. Coll.)..... Pemberton, N. J.
 H. K. Plank (Penn. State Coll.)..... do

INSECT CONTROL BY NATURAL AGENCIES.

R. A. Cushman (Cornell Univ.)..... North East, Pa.

ORCHARD INSECT SURVEY.

J. F. Strauss (Va. Polytechnic Inst.)..... Washington, D. C.
 J. H. Paine (Leland Standford Univ.)..... do

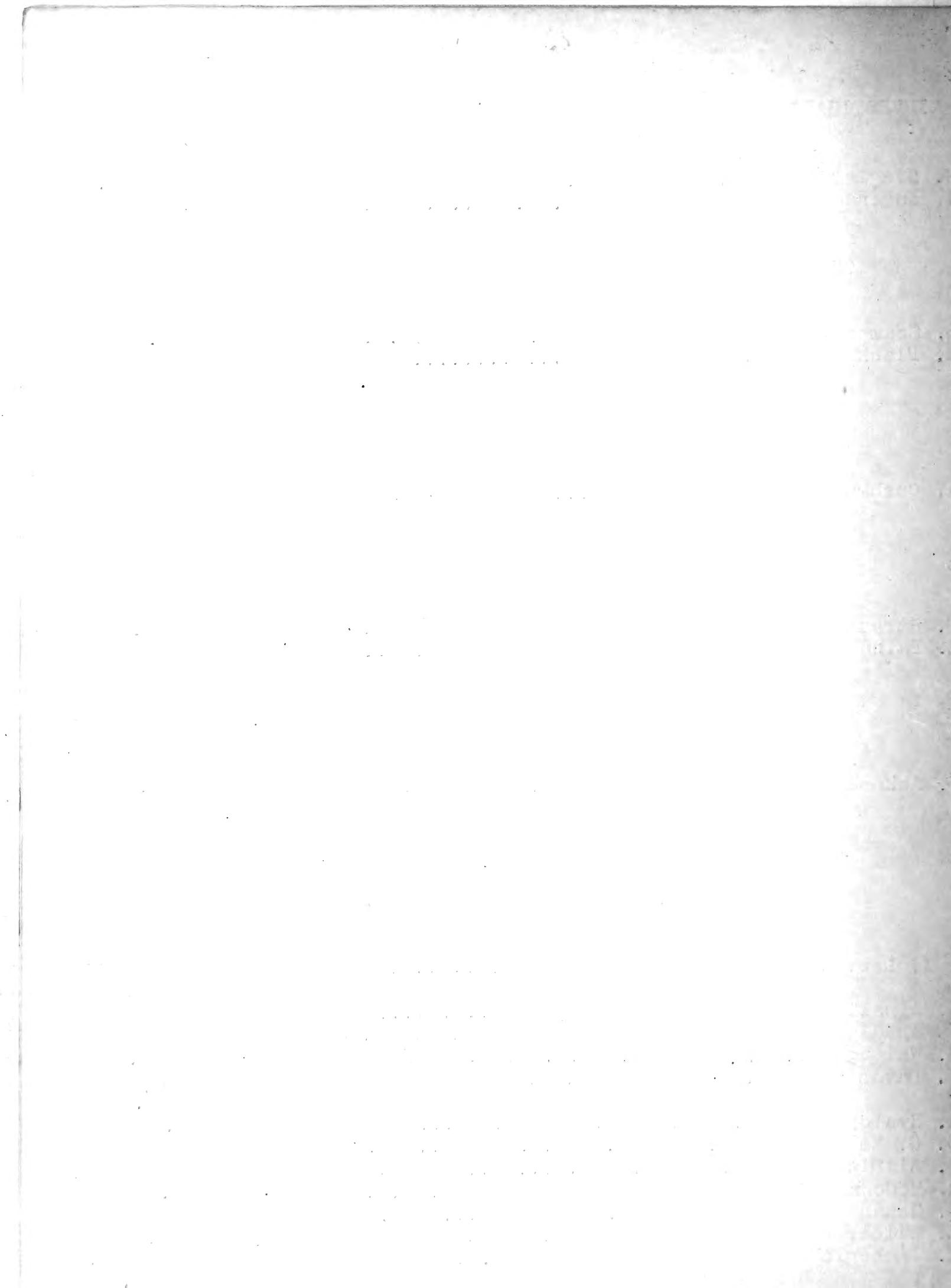
DECIDUOUS FRUIT NURSERY INSECT INVESTIGATIONS.

A. J. Ackerman (Mass. Agr. Coll.)..... West Chester, Pa.

CEREAL AND FORAGE INSECT INVESTIGATIONS.

F. M. Webster, In Charge.

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W. R. Walton	Washington, D. C.
J. Davis (Univ. of Illinois).....	Lafayette, Ind. (439 Harrison St.)
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E. Smith (Mass. Agr. Coll.).....	Marlboro Highlands, Mass.
ernon King	Charleston, Mo.
G. Ainslie (Univ. of Minn.).....	Nashville, Tenn.
hilip Luginbill (Ohio State Univ.).....	Columbia, S. Car.
enry Fox (Univ. of Penn.).....	Charlottesville, Va.
W. Creel (Univ. of Nevada).....	Forest Grove, Oregon.
H. Gibson (Mich. Agr. Coll.).....	Tempe, Ariz.
A. Vickery (Univ. of Minn.).....	Brownsville, Tex.
F. Satterthwait.....	Lafayette, Ind.
J. Caffrey (Mass. Agr. Coll.).....	Koehler, N. Mex.
P. Rockwood (Mass. Agric. Coll.).....	Salt Lake City, Utah. 416
L. Scott (Oklahoma.).....	Brownsville, Tex. (Vt. Bldg
B. Miles (Colo. State Agr. Coll.).....	Salt Lake City, Utah.
R. Chamberlin (Univ. of Utah.).....	do (416 Vt. Bldg
H. Larrimer (Ohio State Univ.).....	Wellington, Kans.
S. Wilson (Univ. of Kans.).....	do
R. Sandige.....	Koehler, N. Mex.
J. Snow (Univ. of Utah.).....	Salt Lake City, Utah.
	(416 Vt. Bldg.)

SOUTHERN FIELD CROP INSECT INVESTIGATIONS.

W. D. Hunter, In Charge.

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D. Smith (Univ. of La.).....	Tallulah, La.
A. McGregor (Leland Stanford Univ.).....	Batesburg, S. C.
R. Coad (Univ. of Illinois.).....	Tucson, Ariz.
C. Parman (Univ. of Tenn.).....	Uvalde, Texas.
W. Moreland	Tallulah, La.
W. Howe (Mass. Agr. Coll.).....	do
D. Mitchell	Victoria, Texas.
F. McGehee (Miss. Agr. Coll.).....	Tallulah, La.
L. McDonough (Mass. Agr. Coll.).....	Batesburg, S. C.

TOBACCO INSECT INVESTIGATIONS.

C. Morgan (Cornell Univ.).....	Clarksville, Tenn.
A. Runner (Ohio State Univ.).....	do
E. Crumb (Univ. of Kans.).....	do
C. Crockett	do

RICE INSECT INVESTIGATIONS.

L. Webb (Miss. State Univ.).....	Washington, D. C.
----------------------------------	-------------------

SUGAR CANE INSECT INVESTIGATIONS.

M. Hill (Tex. Agr. & Mech. Coll.) New Orleans, La. (Audubon Pk.)	
C. Loftin (Fla. Agr. Coll.).....	do , do

THE ARGENTINE ANT.

R. B. Smith (Col. Agr. Coll.).....	New Orleans, La. (Audubon Pk.)
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FOREST INSECT INVESTIGATIONS.

A. D. Hopkins, In Charge.

E. Burke (Wash. State Univ.).....	Placerville, Cal.
E. Snyder (Yale Forestry School.).....	Washington, D. C.
C. Craighead (Penn. St. Coll.).....	do
M. Miller (Leland Stanford Univ.).....	Oakland, Oregon.
usef Brunner.....	Missoula, Mont.
D. Edmonston (Univ. of Edinburgh).....	Colorado Springs, Col.
B. Champlain.....	do
ngust Busck (Royal Univ. of Copenhagen).....	Washington, D. C.
A. Rohwer (Univ. of Colo.).....	East Falls Church, Va.
am Boving	do
S. Fisher.....	do
T. Greene (Drexel Inst.).....	East Falls Church, Va.
arl Heinrich (Univ. of Chicago).....	do
use Middleton	do

TRUCK CROP AND STORED PRODUCT INSECT INVESTIGATIONS.

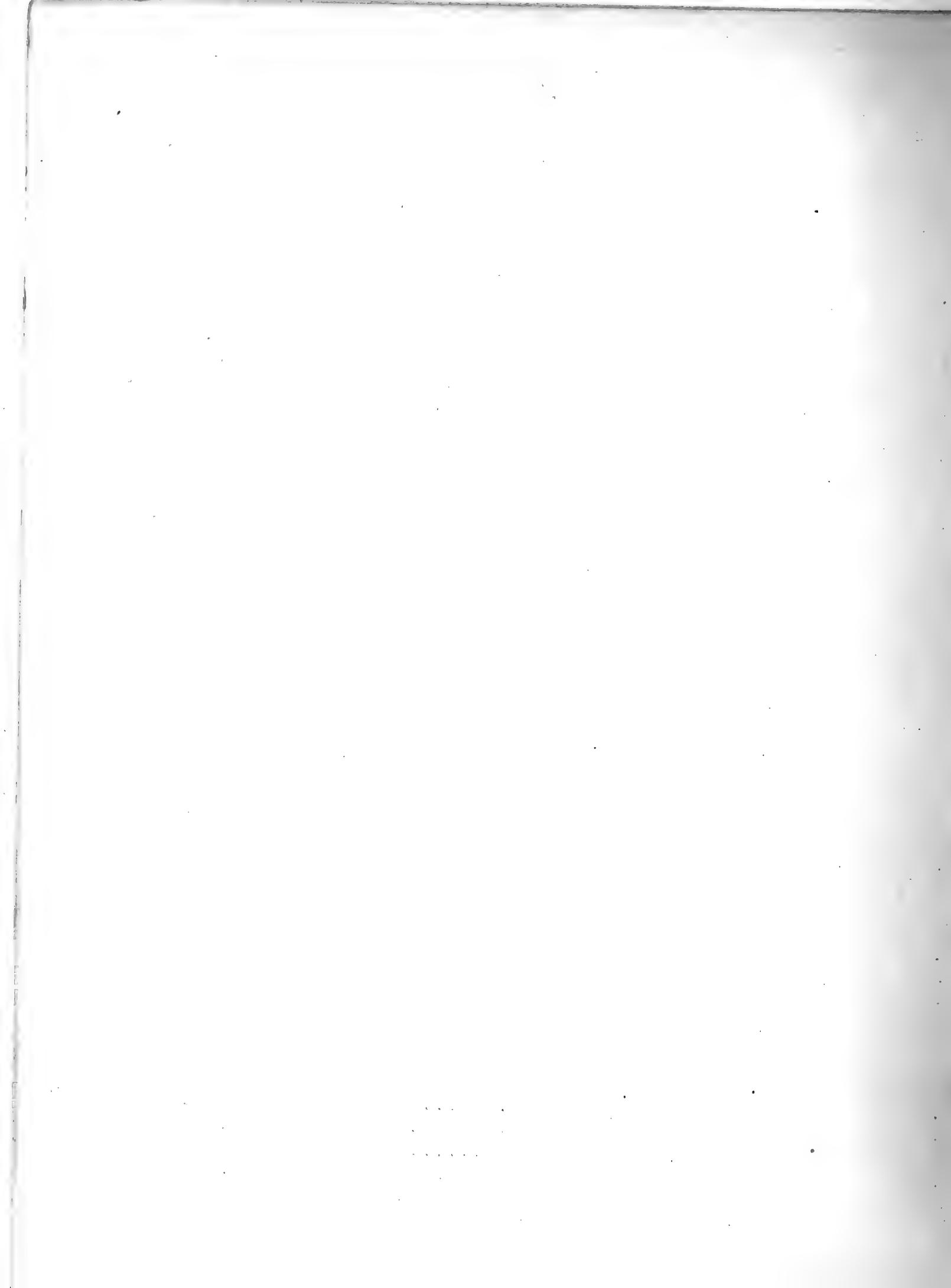
F. H. Chittenden, In Charge.

INVESTIGATIONS OF TRUCK CROP INSECTS.

H. Popencoe (Kans. St. Agric. Coll.).....	Washington, D. C.
O. Marsh.....	Rocky Ford, Col.
E. Graf (Pomona Coll.).....	Pasadena, Cal.
M. High (Miss. Agric. & Mechan. Coll.).....	Knox, Ind.
E. Fink (Cornell Univ.).....	Norfolk, Va.
F. Stahl (Pomona Coll.).....	Jerome, Idaho.
A. Johnston (Mass. Agric. Coll.).....	Riverhead, Long Island, N.Y.
B. Duckett (Md. Agric. Coll.).....	Washington, D. C.
H. White (Md. Agric. Coll.).....	College Park, Md.

SUGAR BEET INSECT INVESTIGATIONS.

O. Marsh.....	Rocky Ford, Col.
M. Russell (Mass. Agric. Coll.).....	Phoenix, Arizona.
E. Graf (Pomona Coll.).....	Pasadena, Cal.
B. Milliken (Kans. St. Agric. Coll.).....	Garden City, Kans.
F. Stahl (Pomona Coll.).....	Jerome, Idaho.
L. Boyden (Pomona Coll.).....	Oxnard, Cal.



INVESTIGATIONS OF STORED PRODUCT INSECTS.

H. Poponoe (Kans. St. Agric. Coll.).....	Washington, D. C.
M. High (Miss. Agric. & Mechan. Coll.).....	Knox, Ind.
E. Campbell (Univ. of Calif.).....	Sacramento, Cal.
B. Duckett (Md. Agric. Coll.).....	Washington, D. C.

BEE CULTURE INVESTIGATIONS.

E. F. Phillips, In Charge.

F. White (Cornell Univ.).....	Washington, D. C.
A. Nelson (Univ. of Penn.).....	Drummond, Md.
E. McIndoo (Univ. of Indiana).....	do
H. McCray (Ohio State Univ.).....	Washington, D. C.

TROPICAL AND SUBTROPICAL FRUIT INSECT INVESTIGATIONS.

C. L. Marlatt, In Charge.

S. Woglum (Cornell Univ.).....	Pasadena, Cal.
W. Yothers (Cornell Univ.).....	Orlando, Fla.
R. Horton (Utah St. Agric. Coll.).....	New Orleans, La.
L. Sanford (N. Y. St. Coll. of Agric.).....	Washington, D. C.
D. Neuls.....	Mecca, Cal.
D. Borden (Leland Stanford Univ.).....	Pasadena, Cal.

MEDITERRANEAN FRUIT FLY.

C. L. Marlatt, In Charge.

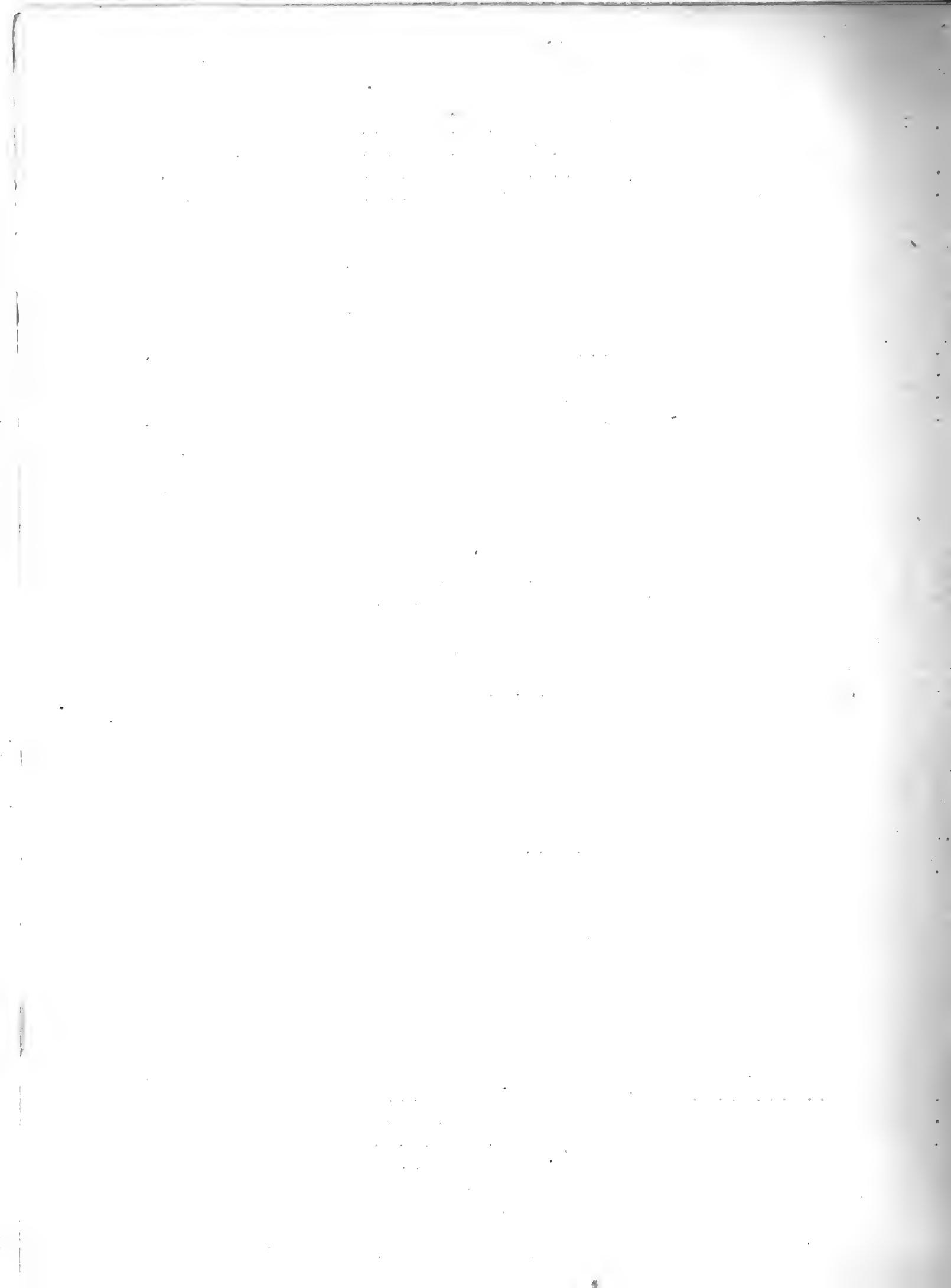
A. Back (Mass. Agric. Coll.).....	Honolulu, T. H.
E. Pemberton (Leland Stanford Univ.).....	do

MISCELLANEOUS INSECT INVESTIGATIONS.

(Under direct supervision of Chief of Bureau.)

IDENTIFICATION AND CLASSIFICATION OF INSECTS.

Ethan Banks (Cornell Univ.).....	Washington, D. C.
A. Schwarz.....	do
N. Caudell (Oklahoma Agric. Coll.).....	do
H. G. Dyar (Columbia Univ. N.Y.).....	do
(Mass. Inst. Tech.).....	
Fried. Knab (Univ. of Munich).....	do
Rollo P. Carrie (Univ. of N. Dakota).....	do
Otto Hessemann (High Schools Cassel & Leipzig)...	do
Theodore Pergande	do



INVESTIGATIONS OF INSECTS AFFECTING THE HEALTH OF MAN.

D. Hunter (Univ. of Neb.)	Washington, D. C.
L. Van Dine (Cornell Univ.)	Mound, La.
H. Jennings (Johns Hopkins)	Spartanburg, S. Car.
H. Hutchison (Lafayette Coll.)	Washington, D. C.
V. King (Univ. of Montana)	New Orleans, La.
P. Wood (Mass. Agric. Coll.)	Dallas, Texas.
A. Cooley	Bozeman, Mont.
W. Jobbins-Pomeroy (Univ. of Ill.)	Washington, D. C.
M. Foster	Mound, La.
H. O'Neill (Md. Agric. Coll.)	do
H. Kimball (Miss. Agric. Coll.)	do
K. Thibault	Scott, Ark.

INVESTIGATIONS OF INSECTS AFFECTING THE HEALTH OF ANIMALS.

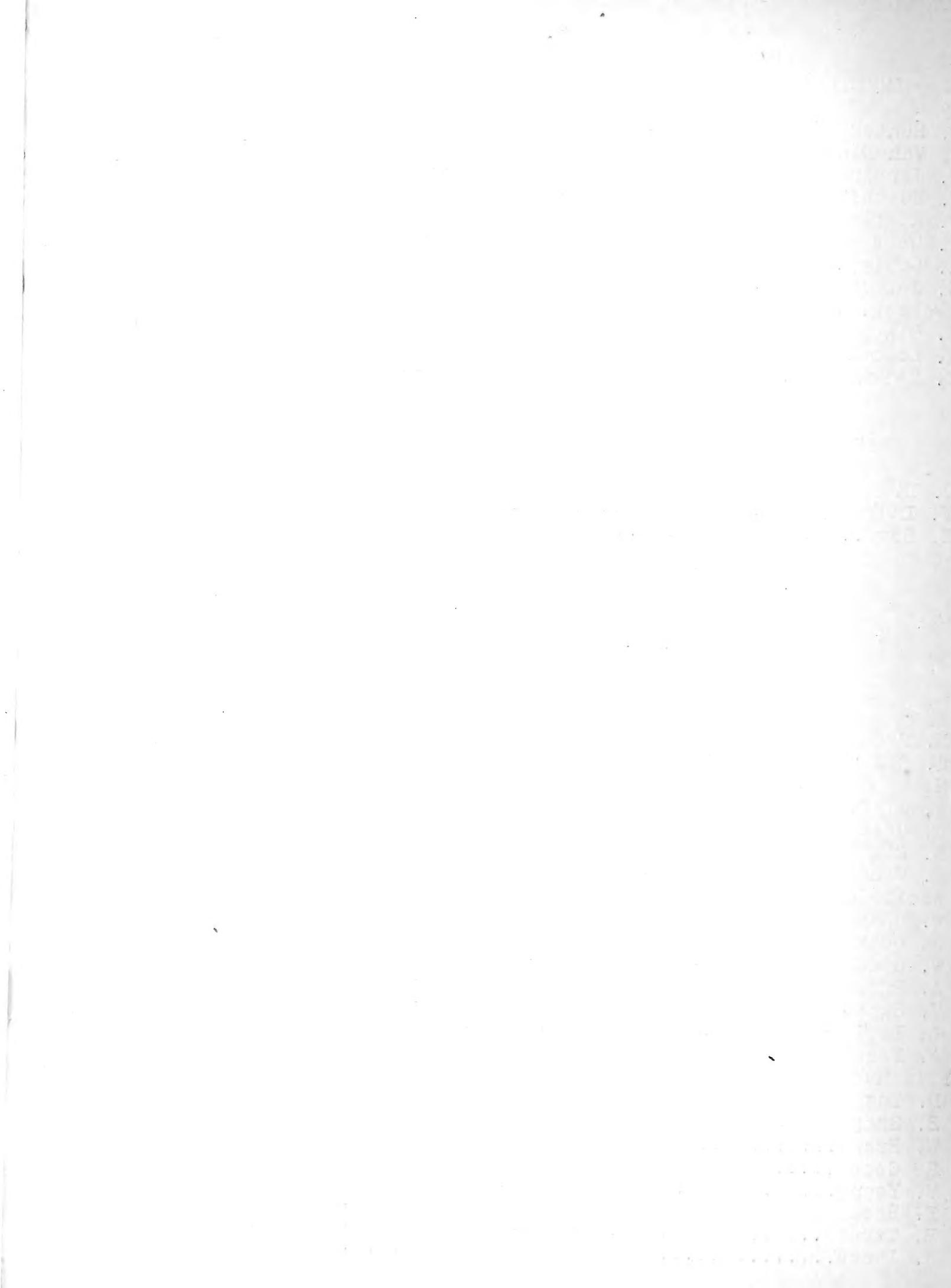
C. Bishopp (Colo. St. Agric. Coll.)	Dallas, Texas. (Box 208)
W. Laake (Univ. of Texas)	do
E. Dove	do

PREVENTING SPREAD OF MOTHS.

A. F. Burgess, In Charge.

EXPERIMENTAL WORK.

N. Summers (Mass. Agric. Coll.)	Melrose Highlands, Mass.
S. Crossman (Mass. Agric. Coll.)	do
H. Mosher	do
W. Glaser (Harvard Univ.)	do
W. Collins (Delaware Agric. Coll.)	do
E. Clement (Yale Forestry School)	do
W. Minott (Mass. Agric. Coll.)	do
Woolridge (Dartmouth Coll.)	do
W. Chapman (Harvard Univ.)	do
J. Culver (Ala. Polytechnic Coll.)	do
W. Stockwell (Mass. Agric. Coll.)	do
A. Proctor	do
V. Schaffner, Jr.	do
L. Bailey	do
A. Preston	do
Ellis Munro (Clark Univ.)	do
D. Ingall (Cornell Univ.)	do
B. Shepherd	do
W. Brown	do
R. Gooch	do
W. Young	do
E. Hood (Conn. Agric. Coll.)	do
B. Turner	do
W. Jones	do



T. Webber.....	Melrose Highlands, Mass.
W. Allen (Mass. Agric. Coll.).....	do
J. Pillsbury (Mass. Agric. Coll.).....	do
E. Partridge (Biltmore Forest School).....	do
E. Gibson (Mass. Agric. Coll.).....	do
B. Russell.....	do
T. Holbrook.....	do
D. Landers.....	do
W. Graham.....	do
K. Parker.....	do
J. Thompson.....	do
A. Shinkwin.....	do
I. Winchester.....	do
M. Wilcox.....	do
J. Kennedy.....	do
A. Collins.....	do

FIELD WORK.

(43 Tremont St.)
Boston, Mass.

M. Roger.....	Boston, Mass.
H. Worthley.....	do
W. Vinton.....	do
L. McIntyre.....	do
C. Murphy.....	do
N. Bean.....	do
A. Ames.....	do
W. Graves, Jr.....	do
E. Totman.....	do

